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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/519,281	08/04/2005	Gordon Calundann	2011.9	7691
7590 03/23/2009 Robert H. Hammer III			EXAMINER	
Suite I			WEINER, LAURA S	
3121 Springbank Lane Charlotte, NC 28226			ART UNIT	PAPER NUMBER
, -			1795	
			MAIL DATE	DELIVERY MODE
			03/23/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/519 281 CALUNDANN ET AL. Office Action Summary Examiner Art Unit /Laura S. Weiner/ 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 04 August 2005. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) _____ is/are rejected 7) Claim(s) is/are objected to. 8) Claim(s) 1-18 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/0E)
Paper No(s)/Mail Date ________

Attachment(s)

Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-14, drawn to a proton-conducting polymer membrane

Group II, claim(s) 15, drawn to. an electrode provided with a proton-conducting polymer coating

Group III, claim(s) 16, drawn to a membrane-electrode unit

Group IV, claim(s) 17, drawn to a membrane-electrode unit comprising an electrode composite and a membrane.

Group V, claim(s) 18, drawn to a fuel cell comprising a membrane-electrode.

2. The inventions listed as Groups I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Invention I is a proton-conducting polymer membrane made with one or more aromatic tetraamino compounds with one or more aromatic carboxylic acids or esters or one or more aromatic and/or heteroaromatic diaminocarboxylic acids in a polyphosphoric acid/sulfonating agent versus Invention II which is a proton-conducting

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polymer coated on an electrode where the coating is made with one or more aromatic tetraamno compound with one or more aromatic sulfocarboxylic acids or esters which contains at least two carboxylic acid groups and one sulfonic acid group versus Invention III which is a membrane-electrode unit comprising an electrode and a membrane of Invention I versus Invention IV which is a membrane-electrode unit comprising the electrode cited in Invention III and a membrane cited in Invention I versus Invention V which is a fuel cell comprising a membrane -electrode unit of Invention III or of Invention IV.

3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- a proton-conducting polymer membrane made with
- a) one or more aromatic tetraamino compounds with one or more aromatic carboxylic acids or esters
- b) one or more aromatic and/or heteroaromatic diaminocarboxylic acids in a polyphosphoric acid/sulfonating agent
- c) A polymer which is based on polymers comprising recurring benzimidazole units from Formulas (I-XXII),

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

4. The claims are deemed to correspond to the species listed above in the following manner:

A proton-conducting polymer membrane made with:

- 1) a) one or more aromatic tetraamino compounds (choose one from claim 2)with one or more aromatic carboxylic acids or esters (choose one from claims 3 or 4 or 5 or 6) or
- (choose one from claim 7) in a polyphosphoric acid/sulfonating agent (pick one from claim 8)
- II) Please choose one polymer which is based on polymers comprising recurring benzimidazole units. Please pick one formula from Formulas (L-XXII), please further define all variables of that Formula by giving a specific polymer stated in the specification.

The following claim(s) are generic: claim 1.

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A telephone call was not made due to the complexity to request an oral election to the above restriction requirement, therefore did not result in an election being made.

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Laura S. Weiner/ whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Laura S Weiner/ Primary Examiner Art Unit 1795

March 17, 2009